



## **Department of Public Works – Right-of-Way Management Services**

17500 Midvale Avenue North, Shoreline, WA 98133-4905

Telephone (206) 801-2400 ♦ Fax (206) 801-2785

# **TRAFFIC CONTROL STANDARDS**

1. All traffic control applications and devices are to be pursuant to the Manual on Uniform Traffic Control Devices (MUTCD), current edition.
2. All traffic control signs are to be 36" x 36" with orange background and black lettering (30" x 30" okay on streets classified as "Residential").
3. A minimum of three traffic control signs is required in all directions on residential streets adjacent to, or around the corner from, the job site. A minimum of four traffic control signs is required in all directions on arterial streets and state routes adjacent to, or around the corner from, the job site. The City of Shoreline reserves the right to require additional signage depending on the scope of work and the location of the project.
4. In all instances, cones must be orange in color, 28 inches tall, and have two (2) retroreflective bands.
5. Distance between signs is per MUTCD Table 6C-1.
6. The City of Shoreline reserves the right to adjust approved traffic control plans as needed during the project.

## Special Warning Signs for Motorcycles (see attached detail)

The Washington State Legislature has determined that special warning signs must be provided (RCW 47.36.200) at work zones in addition to standard warning signs, to warn motorcyclists at work zone locations that are potentially hazardous to motorcycles. The following roadway conditions require the placement of sign, W21-1701 "MOTORCYCLES USE EXTREME CAUTION":

### Roadway Condition(s)

- Grooved pavement (generally during pavement planning removal)
- Abrupt lane edges (during paving & pavement removal)
- Steel plates (usually temporary utility work, may not affect WSDOT too often)
- Gravel or Earth (many operations on the roadway or off could leave this type of loose material on the roadway surface)

Standard warning signs must also be used to warn of the actual roadway condition. Some applicable standard warning signs may be:

- W21-801 "ABRUPT LANE EDGE"
- W8-7 "LOOSE GRAVEL"
- W8-2001 "GROOVED PAVEMENT"
- W21-2 "FRESH OIL"
- W8-8 "ROUGH ROAD"
- W8-1 "BUMP"

Sign W21-1701 should be installed at 1 mile spacing, throughout the work zone where the condition(s) exist, as part of a sequence of other appropriate standard warning signs (above examples) also, on 1 mile spacing.

Sign W21-1701 is not required for short duration\* (up to 1 hour) work zones, emergencies or incident response operations. Other operations that have no direct impact on the roadway condition, such as:

- Mowing
- Shoulder work
- Snow & ice removal
- Debris removal

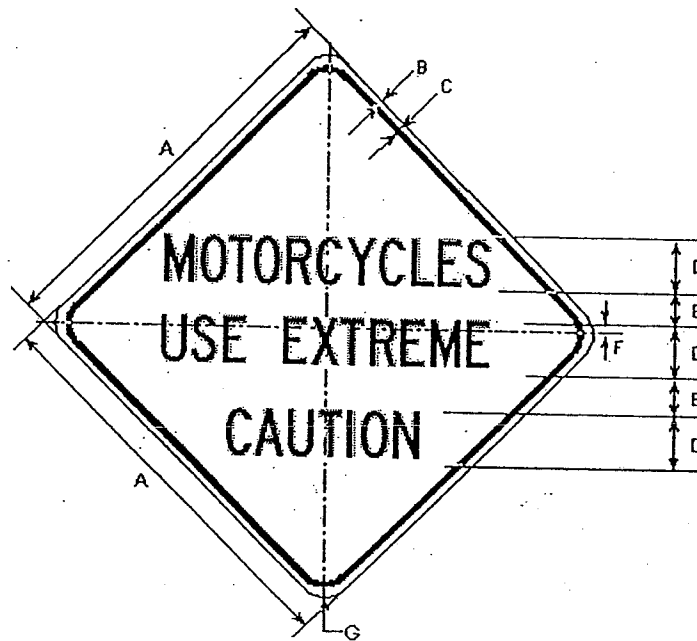
Care must be exercised during all work zone operations to not inadvertently create one or more of the above roadway conditions that may be hazardous for motorcycles.

Additional roadway cleaning may be needed to remove gravel, earth or other debris that may have been stockpiled, spilled or tracked onto the roadway surface.

\* Assumes that the short duration work zone does not leave the roadway surface in one of the four conditions listed above.

W21-1701

5.03



DIMENSIONS (MILLIMETERS)						
A	B	C	D	E	F	G
900	16	22	125C	75	25	56
1200	19	31	150C	100	38	75

DIMENSIONS (INCHES)						
A	B	C	D	E	F	G
36	5/8	7/8	5C	3	1	2 1/4
48	3/4	1 1/4	6C	4	1 1/2	3

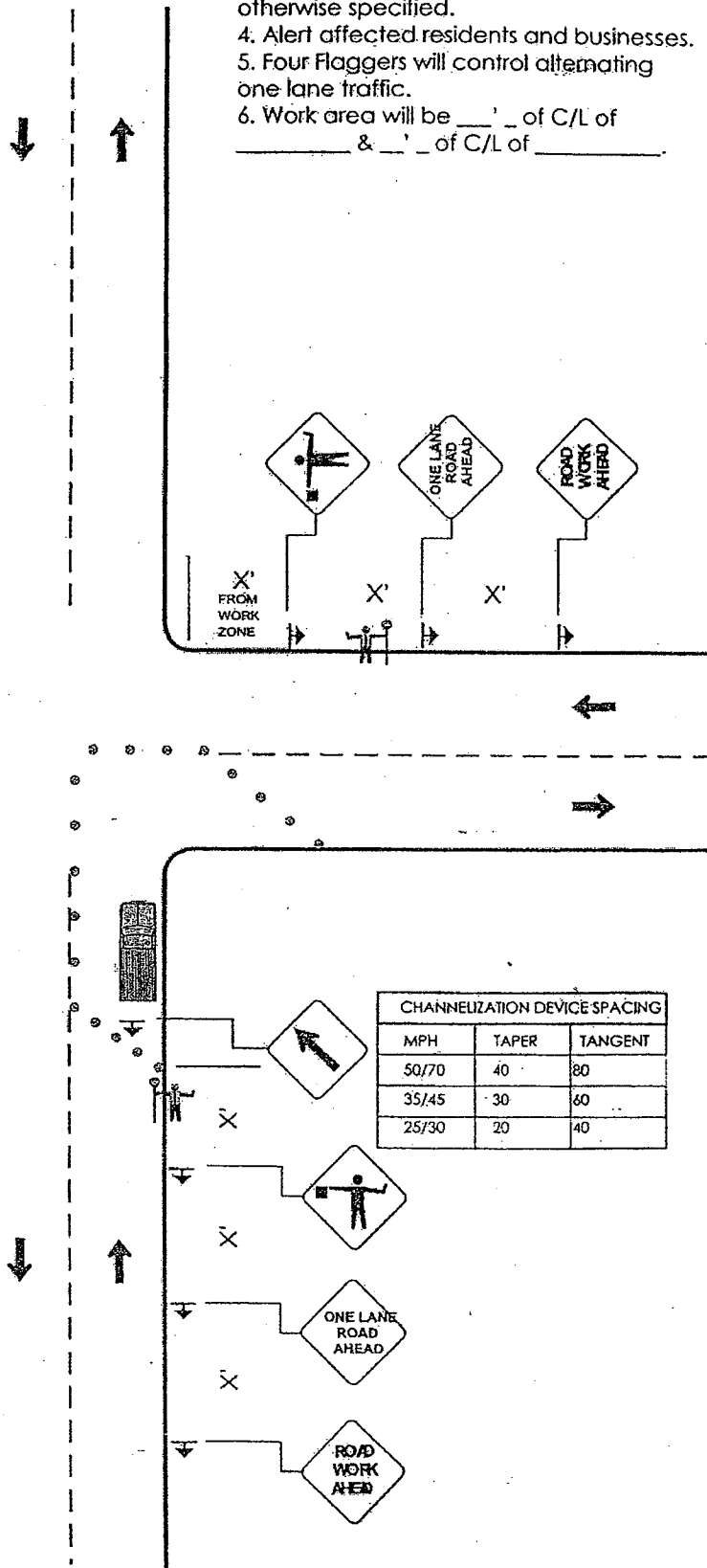
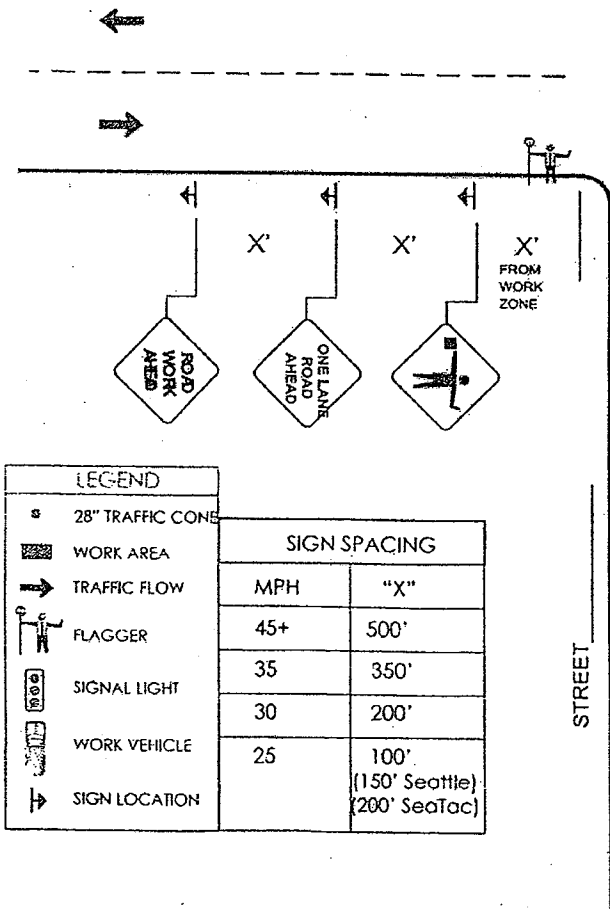
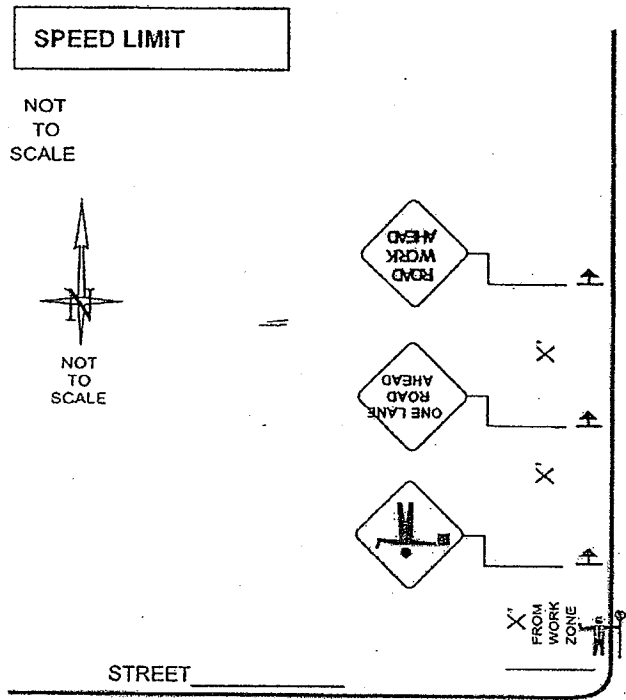
#### COLORS

LEGEND—BLACK (NON-REFL)  
BACKGROUND—ORANGE

Job # \_\_\_\_\_  
 Date \_\_\_\_\_  
 Name \_\_\_\_\_

#### Notes:

1. All signs and spacing to conform to the MUTCD and City of \_\_\_\_\_ Traffic Control specs.
2. Channelizing devices are 28" traffic cones.
3. All signs are 48" x 48" B/O unless otherwise specified.
4. Alert affected residents and businesses.
5. Four Flaggers will control alternating one lane traffic.
6. Work area will be \_\_\_' of C/L of \_\_\_\_\_ & \_\_\_' of C/L of \_\_\_\_\_.



Job # \_\_\_\_\_  
 Date \_\_\_\_\_  
 Sheet 1 of 1

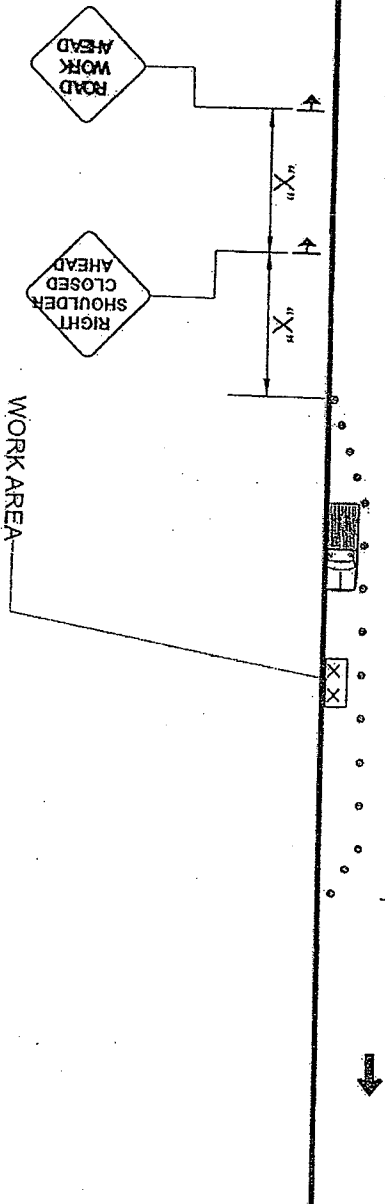
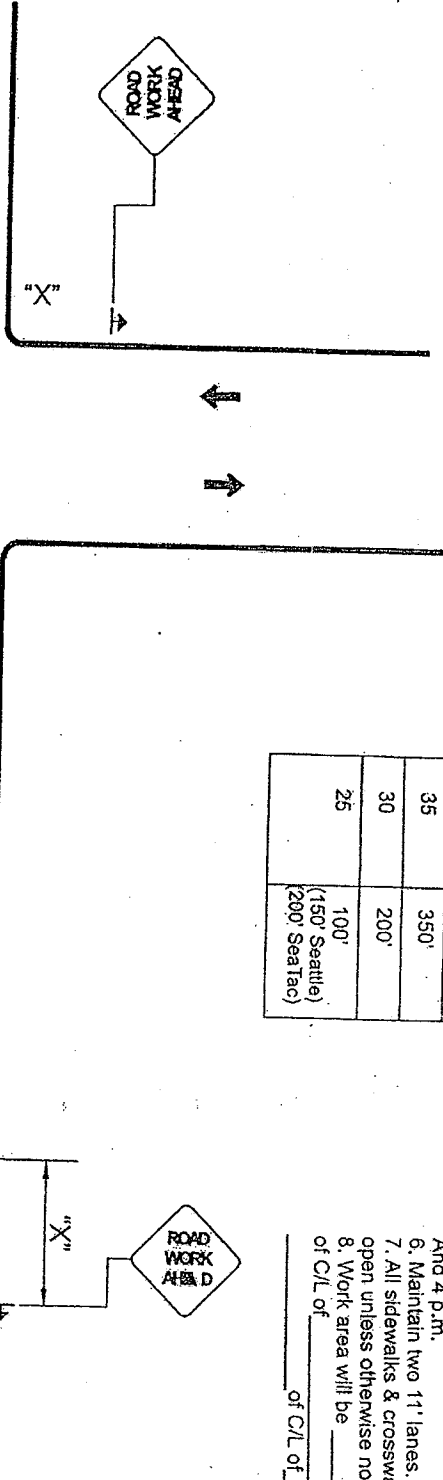
NAME \_\_\_\_\_



**SPEED LIMIT**

SIGN SPACING	
MPH	"X"
45+	500'
35	350'
30	200'
25	100'
	(150' Seattle) (200' SeaTac)

- Notes:
1. All signs and spacing to conform to MUTCD & City of \_\_\_\_\_ Traffic Control specs.
  2. Channelizing devices are 28" traffic cones.
  3. All signs are 48" x 48" B/O unless otherwise specified.
  4. Alert affected residents.
  5. Work to take place between 9 a.m. and 4 p.m.
  6. Maintain two 11' lanes.
  7. All sidewalks & crosswalks to remain open unless otherwise noted.
  8. Work area will be \_\_\_\_\_ of C/L of \_\_\_\_\_ & \_\_\_\_\_



CHANNELIZATION DEVICE SPACING

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

**LEGEND**

- 28" TRAFFIC CONE
- XX WORK AREA
- TRAFFIC FLOW
- WORK VEHICLE
- SIGN LOCATION

Job # \_\_\_\_\_  
 Date \_\_\_\_\_  
 Sheet 1 of 1



STREET NAME



STREET NAME

SIGN SPACING	
MPH	X'
45+	500'
36	350'
30	200'
25	100' (150' Seattle)

SPEED LIMIT

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  6. Maintain two 11' lanes.
  7. All sidewalks & crosswalks to remain open unless otherwise noted.
  8. Work area will be \_\_\_\_\_ of C/L of \_\_\_\_\_ & \_\_\_\_\_

CHANNELIZATION DEVICE SPACING			
MPH	TAPER	TANGENT	
50/70	40	80	
35/45	30	60	
25/30	20	40	

WORK AREA

LEGEND

28" TRAFFIC CONE

WORK AREA

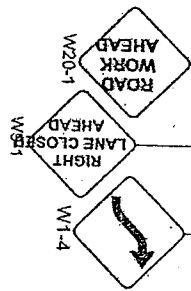
TRAFFIC FLOW

WORK VEHICLE

SIGN LOCATION

Job # \_\_\_\_\_  
 Date \_\_\_\_\_  
 Contact Info: \_\_\_\_\_

Sh. of \_\_\_\_\_



GAS MAINTENANCE  
TRAFFIC PLAN



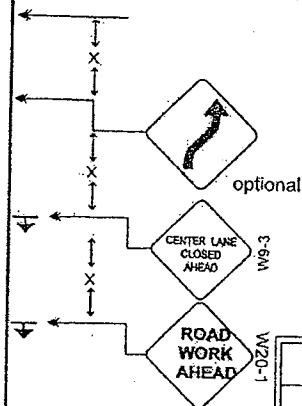
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CHANNELIZATION DEVICE SPACING		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

LEGEND	
	28" TRAFFIC CONE
	WORK AREA
	TRAFFIC FLOW
	FLAGGER
	WORK VEHICLE
	SIGN LOCATION

CROSS STREET



SIGN SPACING	
MPH	"X"
45+	500'
35	350'
30	200'
25	100' 150'-Seattle 200'-Sea-Tac

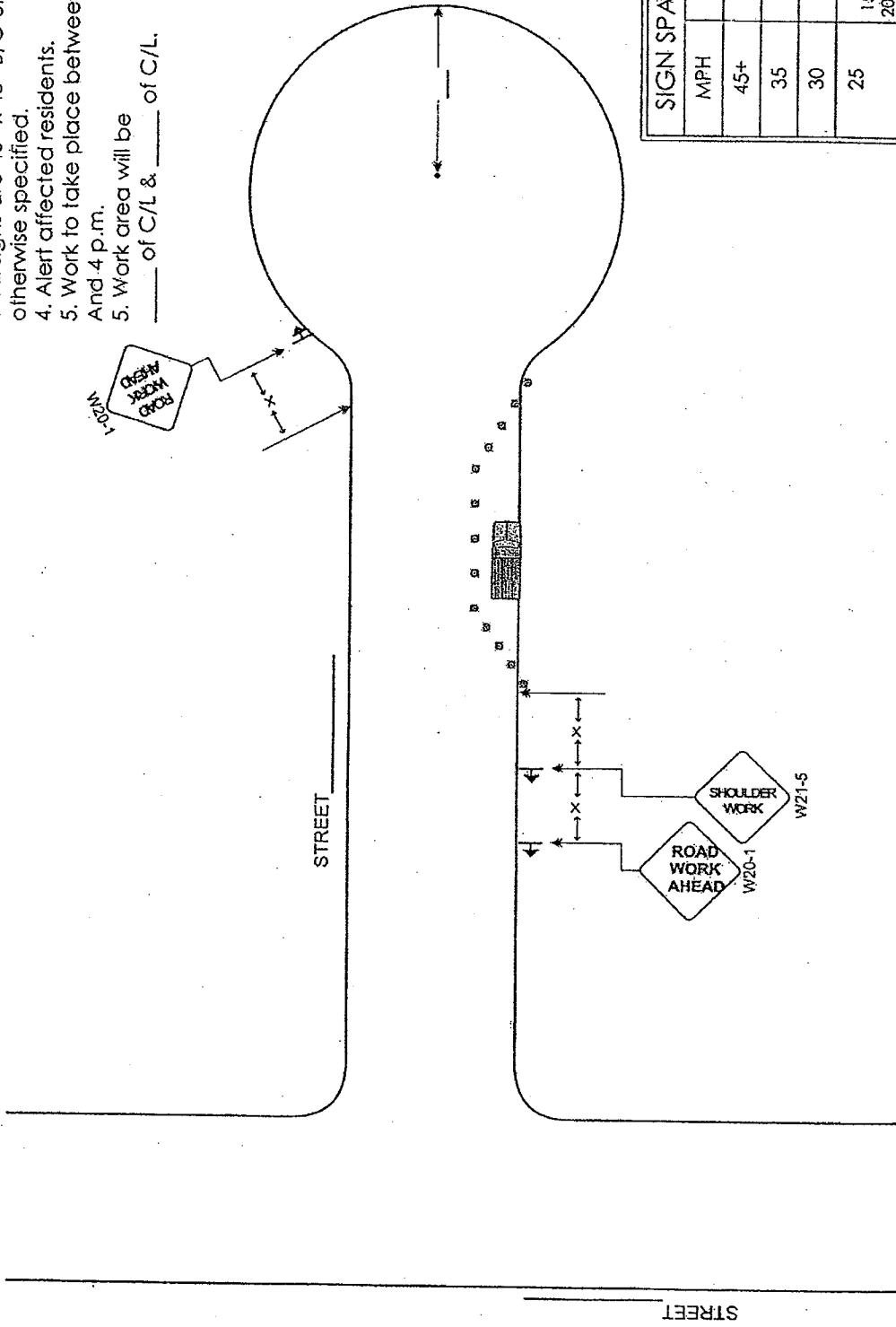
Job # \_\_\_\_\_  
 Date \_\_\_\_\_  
 Contact Info: \_\_\_\_\_

Sh. of \_\_\_\_\_



GAS MAINTENANCE  
TRAFFIC PLAN

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SIGN SPACING	
MPH	"X"
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	150'-Seattle 200'-Sea-Tac

CHANNELIZATION DEVICE SPACING		
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LEGEND	
	28" TRAFFIC CONE
	WORK AREA
	TRAFFIC FLOW
	FLAGGER
	WORK VEHICLE
	SIGN LOCATION

Job # \_\_\_\_\_  
 Date \_\_\_\_\_  
 Sheet 1 of 1

NAME \_\_\_\_\_



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"X"



WORK AREA  
IN SHOULDER

**SPEED LIMIT**

SIGN SPACING	
MPH	"X"
45+	500'
35	350'
30	200'
25	100' (150' Seattle) (200' SeaTac)

**LEGEND**

- 28" TRAFFIC CONE
- XX WORK AREA
- ➔ TRAFFIC FLOW
- WORK VEHICLE
- ➔ SIGN LOCATION



CHANNELIZATION DEVICE SPACING		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

Job # \_\_\_\_\_  
 Date \_\_\_\_\_  
 Contact Info: \_\_\_\_\_

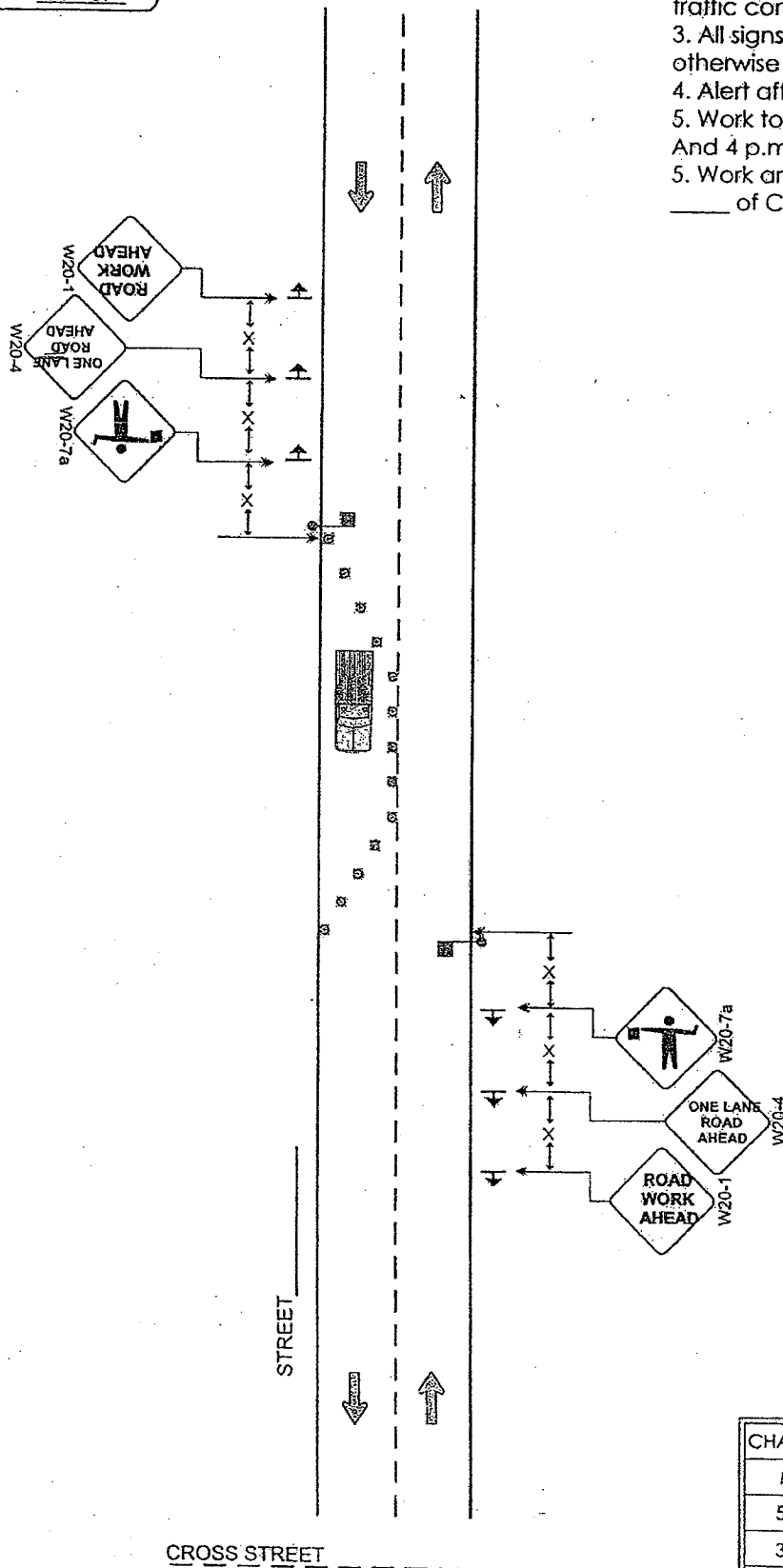
Sh. of \_\_\_\_\_



**GAS MAINTENANCE  
TRAFFIC PLAN**

**Notes:**

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- WORK AREA
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